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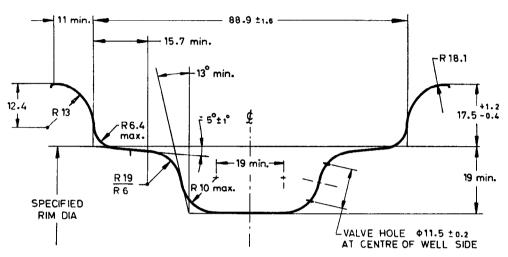


Indian Standard

GENERAL REQUIREMENTS FOR RIMS FOR AUTOMOTIVE VEHICLES

PART 4 SCOOTER AND SCOOTER DERIVATIVE RIMS

- Scope Covers contours and general requirements for scooter and scooter derivative rims.
- 2. Dimensions Contours for scooter and scooter derivative rims with dimensions shall be as given in Fig. 1 and Tables 1 and 2.



All dimensions in millimetres.
FIG. 1 RIM CONTOUR 3:50D WELL BASE

- 3. Rim Diameters and Width Codes Rim diameter and width code combinations in use are according to Table 3.
- 4. Rim Circumference Measurement The bead seat rim circumference measurement shall be carried out using a tape gauge whose length is related to a mandrel diameter which is that of the specified rim diameter, D. The mandrel dimensions are given in Tables 4 and 5.
- 4.1 The measurement shall be carried out according to the method laid down in IS: 10694 (Part 1)-1984 'General requirements for rims for automotive vehicles: Part 1 Rim nomenclature, designation, marking and measurement'.
- 5. Designation The size designation of wheels/rims shall include figures and alphabets representing the following in the order given:
 - a) Nominal rim width code,
 - b) Rim flange profile designation, and
 - c) Nominal rim diameter code.
- 5.1 An alphabet signifies the tyre side profile of the rim flange. Usually the profile designation follows the nominal rim width code. It may, however, precede or include the nominal rim width code.

Example:

 $2.50C \times 10$

- 6. Marking The rim size designation shall be marked on the rim according to IS: 10694 (Part 1)-1984
- 7. Other Requirements The rims shall have a smooth contour free from sharp edges on the tyre side.
- 7.1 The valve hole edges on the rims shall be free from burrs.

Adopted 28 October 1983

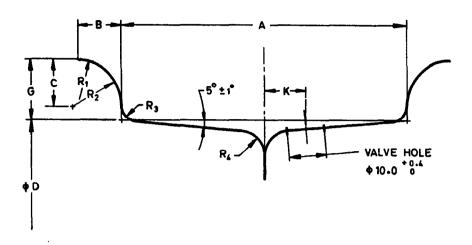
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TABLE 1 CONTOUR DIMENSIONS FOR DIVIDED RIMS

(Clause 2)

All dimensions in millimetres.



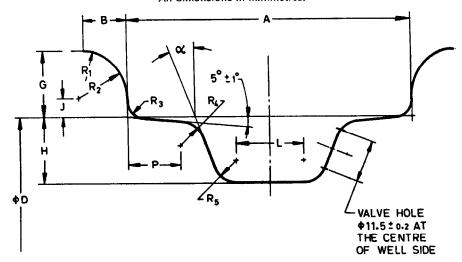
Nominal Rim Width Code	#1.2 -1.0	B Min	<i>G</i> +1.0 -0.5	Q* Min	<i>C</i> Ref	R ₂	R ₃	R₄ Max	R ₁	K Min
2·10	53.2	7.0	12.0	12.5	7.0	7.0	3.0	5.0	_	8.0
2:15	54.2	8.2	15	12.5	10.0	12.5	3.0	5.0	_	8.0
2.20 C	63.2	10.0	16.0	12.5	11.2	12.0	3:5	5.0	7:5	9.0
3.00 D	76.0	11.2	17:5	14.0	12 [.] 5	13.0	4.2	6.2	10 [.] 5	11.0

^{*}For off-centre naves, where the value is the minimum width for tapered bead seat.

TABLE 2 CONTOUR DIMENSIONS FOR DROP CENTRE RIMS

(Clause 2)

All dimensions in millimetres.



Nominal Rim Width Code	<i>A</i> ±1.5	Min	3 Max	<i>G</i> +1.0 -0.5	# +1:0 0	P +2.0 0	L Min	J	R ₂	R ₃ Max	R ₄ Min	R _s Min	R ₁	α Deg- rees 0 5
3.00 D	76.0	11.2	15.2	17:5	18.0	14.0	18.0	5	13.0	4.2	6 [.] 5	3.0	8	18

TABLE 3 RIM DIAMETER AND WIDTH CODE COMBINATIONS

(Clause 3)

Nominal	Nominal Rim Diameter Code	8	10		
Rim Width Code	Specified Rim Diameter, D, mm	202.4	253·2		
2.10		x	×		
2.15		х	х		
2·50C			X		
3.00D		x			
3.00D Well base			x		
3.50D Well base			х		

Note — Cross mark indicates nominal rim diameter code and specified $\,$ rim $\,$ diameter corresponding to nominal $\,$ rim width code.

TABLE 4 TAPE MANDREL DIMENSIONS FOR RIM CIRCUMFERENCE MEASUREMENTS FOR DIVIDED RIMS

(Clause 4)
All dimensions in millimetres,

Nominal Rim Diameter Code	Specified Rim Diameter, D	Taping Diameter	Taping Circum- ference ±1·2	Taping Position	*Tape Mandrel Diameter	*Tape Mandrel Circum- ference	Diameter of Ball Tape for Rim Measurement
8	202.4	201.7	633.8	3:7	202:1	634.9	8.0
10	253.2	252.6	793.4	3.7	252.9	794 ⁻ 5	8.0

^{*}Mandrel dimensions include a plus tolerance of 0.4 mm on diameter and 1.2 mm on circumference.

TABLE 5 TAPE MANDREL DIMENSIONS FOR RIM CIRCUMFERENCE MEASUREMENTS FOR WELL BASE RIMS

(Clause 4)

All dimensions in millimetres.

Nominal Rim Diameter Code	Specified Rim Diameter, D	Taping Diameter	Taping Circum- ference ±1.2	Taping Position	*Tape Mandrel Diameter	*Tape Mandrel Circum- ference	Diameter of Ball Tape for Rim Measurement
10	253 [.] 4	252 [.] 4	792 [.] 9	4.6	252 [.] 7	793·8	10

^{*}Mandrel dimensions include a plus tolerance of 1'2 mm on circumference.

EXPLANATORY NOTE

Wheels/rims for all types of vehicles are being manufactured in the country. This Indian Standard has been issued in order that the manufacturers follow uniform rim profiles for proper fitment of tyres and become familiar with the size designations and other markings.

This standard (Part 4) is one of a series of Indian Standards pertaining to rims for various types of automotive vehicles. The standards in this series are:

- IS: 10694 (Part 1)-1984 General requirements for rims for automotive vehicles: Part 1 Rim nomenclature, designation, marking and measurement
- IS: 10694 (Part 2)-1983 General requirements for rims for automotive vehicles: Part 2 Passenger car rims
- IS: 10694 (Part 3)-1983 General requirements for rims for automotive vehicles: Part 3 Commercial vehicle rims
- IS: 10694 (Part 4)-1983 General requirements for rims for automotive vehicles: Part 4 Scooter and scooter derivative rims
- IS: 10694 (Part 5)-1983 General requirements for rims for automotive vehicles: Part 5 Motor-cycle and motorcycle derivative rims

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- IS: 10694 (Part 6)-1984 General requirements for rims for automotive vehicles: Part 6 Agricultural tractor rims
- IS: 10694 (Part 7)-1983 General requirements for rims for automotive vehicles: Part 7 Industrial truck rims
- IS: 10694 (Part 8)-1983 General requirements for rims for automotive vehicles: Part 8 Earthmoving machine rims

Keeping the exports of vehicles in view and for harmonization of standards, efforts have been made to refer to European Tyre and Rim Technical Organization (ETRTO) Standards.

These standards do not lay down methods of testing and performance requirements for wheels/ rims. These lay down only the rim profiles and other general requirements. For passenger car wheels and truck and bus wheels/rims, reference may be made to the following standards for methods of testing and performance requirements:

- IS: 9436-1980 Performance requirements and methods of test for wheels for passenger cars
- IS: 9438-1980 Performance requirements and methods of test for wheels/rims for trucks and buses